(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 September 2006 (21.09.2006)

PCT

(10) International Publication Number WO 2006/097918 A2

- (51) International Patent Classification: H01Q 23/00 (2006.01)
- (21) International Application Number:

PCT/IL2006/000322

- (22) International Filing Date: 12 March 2006 (12.03.2006)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/661,750 60/749,364

15 March 2005 (15.03.2005) US 9 December 2005 (09.12.2005)

- (71) Applicant (for all designated States except US): GAL-TRONICS LTD. [IL/IL]; P.O. Box 1589, 14115 Tiberias (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BAE, Charlie [KR/KR]; Room 401, Sungwonvilla, 100-359 Bongehyun-dong, Gwanakgu, Seoul (KR). YONA, Haim [IL/IL]; 314/4 Hashita Street, 14221 Tiberias (IL). AZU-LAY, Snir [IL/IL]; 24 Gordon Street, 14221 Tiberias (IL). QUANTZ, Stefan [CN/DE]; Tian Lai Yuan 12-11, Ban Dao Lan Wan, Youyi Nan Lu, 300221 Tianjin (DE). XU, Xiujuan [CN/CN]; Village Sige, Town Damengzhuang, Tianjin (CN). DA TIAN, Xiao [CN/CN]; #223-502 Yin Hai Li Wuxi (CN).

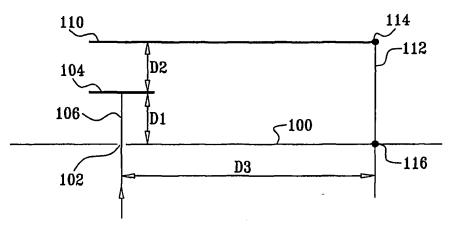
- (74) Agents: SANFORD T. COLB & CO. et al.; P.O. Box 2273, 76122 Rehovot (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CAPACITIVE FEED ANTENNA



(57) Abstract: The present invention seeks to provide an antenna having multiple radiating bands, including a ground plane, a feed plate extending generally parallel to and being spaced from the ground plane by a first distance and having a feed connection extending between the feed plate and the ground plane, at least one radiating element extending generally parallel to and being spaced from the feed plate by a second distance and at least one galvanic connector connecting the at least one radiating element at a first location on the at least one radiating element to the ground plane at a first location on the ground plane, the first location on the ground plane being separated from the feed connection by a third distance, the first, second and third distances being selected to achieve desired impedance matching of the feed plate, and the feed plate feeding the at least one radiating element at a location corresponding to an impedance substantially greater than 50 Ohm at at least one band.

